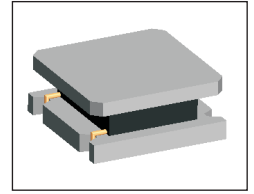


SMT Power Inductor

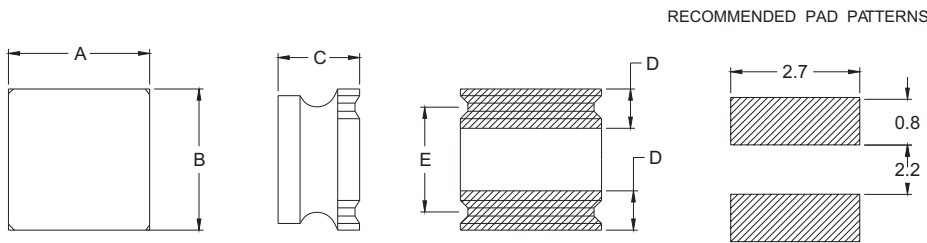
SIG3010 Type

Features

- RoHS compliant.
- Halogen free compliant.
- Low profile (1.0mm max. height), SMD type.
- Shielded
- Self-leads, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



UNIT : mm/inch
 A = 3.00 ± 0.1 / 0.118 ± 0.004
 B = 3.00 ± 0.1 / 0.118 ± 0.004
 C = 1.00 / 0.039 MAX.
 D = 0.90 ± 0.2 / 0.035 ± 0.008
 E = 1.90 ± 0.2 / 0.075 ± 0.008

Electrical Characteristics: 25°C: 100KHz, 0.1V

PART NO.	L ¹ (uH)	DCR (mΩ) Max.	I _{sat} ² (Adc)	I _r ³ (Adc)	SELF-RESONANT FREQUENCY (MHz)Min.
SIG3010 - 1R0	1.0	78	1.30	1.400	126
SIG3010 - 1R5	1.5	96	1.20	1.300	98
SIG3010 - 2R2	2.2	114	1.10	1.100	82
SIG3010 - 3R3	3.3	168	0.87	0.940	63
SIG3010 - 4R7	4.7	228	0.75	0.780	56
SIG3010 - 6R8	6.8	360	0.61	0.630	46
SIG3010 - 100	10.0	540	0.50	0.510	35
SIG3010 - 150	15.0	888	0.40	0.400	30
SIG3010 - 220	22.0	1236	0.35	0.350	25
SIG3010 - 330	33.0	1860	0.26	0.275	20
SIG3010 - 470	47.0	2460	0.22	0.235	17

1. Tolerance of inductance: ± 30% for 1.0~1.5uH, ± 20% for 2.2~47uH.
2. I_{sat} is the DC current which cause the inductance drop 30% typical of its nominal inductance without current.
3. I_r is the DC current which cause the surface temperature of the part increase less than 40°C.
4. Operating temperature: -25°C to 120°C (including self-temperature rise).



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